

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT SECRETARY

July 23, 2003

N.C. Department of Environment and Natural Resources Division of Coastal Management 151-B Hwy 24 Hestron Plaza II Morehead City, NC 28557

ATTENTION: Mr. Bill Arrington

District Manager

Dear Mr. Arrington

Subject: Onslow County, CAMA Major Development Permit Application for the

replacement of Bridge No. 21 over Bear Creek on SR 1503, NCDOT Division 3, Federal Aid Project No. BRZ-1503(1), State Project No. 8.2261001, TIP Project No. B-3217. WBS Element 32938.1.1. \$400.00 Debit work order 8.2261001, WBS Element 32938.1.1

Please find enclosed copies of the Coastal Area Management Act (CAMA) permit application, Categorical Exclusion (CE), permit drawings, stormwater permit and half size plans. Work Order No. 8.2261001will be debited for \$400.00 for the application fee for the above referenced project. Bridge No. 21 will be replaced on the existing alignment with a new bridge approximately 105 feet (ft) [32.0 meters (m)] in length and 45 ft (13.7 m) in width. The existing roadway approaches, which consist of two 12 ft. lanes, will be replaced with two 12 ft lanes with 8 ft shoulders, 4 ft paved and 4 ft turf. During construction, traffic will be maintained on a temporary on-site detour east (downstream) of the existing bridge. The length of the temporary detour bridge will be approximately 100 ft (30.5 m). Impacts to wetlands associated with the replacement of Bridge No. 21 will include temporary fill due to the temporary detour and permanent fill and mechanized clearing (Method III) for the permanent bridge.

Bear Creek is located in the White Oak River Basin. It is classified by Division of Water Quality as SA HQW waters (DWQ index No. 19-41-11). Class SA waters are suitable for commercial shellfishing and all other tidal saltwater uses. Class HQW waters are waters possessing special qualities including excellent water quality, Native or

TELEPHONE: 919-733-3141

FAX: 919-733-9794

WEBSITE: WWW.NCDOT.ORG

Special Trout Waters, Critical Habitat areas, or WS-I and WS-II water supplies. The North Carolina Division of Marine Fisheries designates Bear Creek as a Primary Nursery Area. Therefore, NCDOT will strictly adhere to "Design Standards in Sensitive Watersheds" (15A NCAC 04B .0024) (High Quality Water Standards) throughout design and construction of this project.

<u>Temporary Bridge Information</u>: A temporary bridge will be located east of the existing bridge. Fabric will be in place underneath the fill for the detour structure and mostly likely H-piles will be used for the temporary bridge. The resulting temporary fill in wetlands associated with the temporary detour bridge is 0.53 acre (0.21 hectare) and approximately 0.18 acre (0.07 hectare) in mechanized clearing.

<u>Shading Effects</u>: The existing bridge is 24 ft wide and the proposed bridge will be 45 ft wide. The increase in width of the bridge will shade approximately 0.053 ac of coastal wetlands and 0.008 ac of open water.

<u>Restoration Plan</u>: Upon completion of the new bridge, the temporary bridge will be removed. The approach fill will be removed to natural grade and replanted with appropriate native wetland species. Temporary bents will either be pulled up or cut off and left in place.

<u>Minimization</u>: Embankment fill slopes are 3:1, steeper slopes were not feasible for this project because the sandy soils in this area cannot support a 2:1 slope. The southern end bent of the detour bridge was lengthened by 50 feet from the original design to minimize impacts to wetlands.

Mitigation: Based upon the agreements stipulated in the "Memorandum of Agreement Among the North Carolina Department of Environment and Natural Resources, the North Carolina Department of Transportation, and the U.S. Army Corps of Engineers, Wilmington District" (MOA), it is understood that the North Carolina Department of Environment and Natural Resources Ecosystem Enhancement Program (EEP), will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for NCDOT projects that are listed in Exhibit 1 of the subject MOA during the EEP transition period which ends on June 30, 2005.

Since the subject project is listed in Exhibit 1, the necessary compensatory mitigation to offset unavoidable impacts to waters that are jurisdictional under the federal Clean Water Act will be provided by the EEP. The offsetting mitigation will derive from an inventory of assets already in existence within the same 8-digit cataloguing unit. The Department has avoided and minimized impacts to jurisdictional resources to the greatest extent possible as described above. The remaining, unavoidable permanent impacts to 0.45 acres of jurisdictional wetlands will be offset by compensatory mitigation provided by the EEP program if the US Army Corps of Engineers requires such mitigation.

<u>Schedule:</u> The project schedule calls for a November 18, 2003 let date with an availability date approximately six weeks after. It is expected that the contractor will choose to start construction of the temporary detour bridge shortly after the availability

date. The temporary bridge will be removed within 90 days upon completion of the project.

<u>Disposal</u>: After the temporary bridge is no longer needed, the contractor will use roadway building equipment to remove the concrete deck and riprap. All temporary bridge material will become the property of the contractor. The contractor will be required to submit a reclamation plan for removal and disposal of all material off-site.

Bridge Demolition: The bridge has an asphalt surface on a reinforced concrete floor on timber joists. The bridge has timber cap and pile bents and end bents. The asphalt wearing surface will be removed prior to demolition without dropping into the water. Both the bridge rail and substructure will be removed without dropping components into Waters of the United States. This project is classified as a Case 2 bridge demolition, allowing no work at all in the water during moratorium periods associated with fish migration, spawning, and larval recruitment into nursery areas (March 1 to September 30). During construction, Best Management Practices for Bridge Demolition and Removal will be followed. Due to the potential sedimentation concerns resulting from demolition of the bridge, a turbidity curtain will be used to contain and minimize sedimentation in the stream.

Threatened and Endangered Species: As of March 7, 2002, the U.S. Fish and Wildlife Service (USFWS) lists 12 federally protected species for Onslow County. Since the completion of the CE document bald eagle (*Haliaeetus leucocephalus*) and golden sedge (*Carex lutea*) were added to the federally protected species list for Onslow County. The NCDOT evaluation of the original ten species in June 1999 and September 2000 resulted in Biological Conclusions of "No Effect" for all of these species. Surveys for golden sedge and bald eagle were conducted along with resurveys for rough-leaved loosestrife (*Lysimachia asperulaefolia*) and Cooley's meadowrue (*Thalictrum cooleyi*) in May 2003. Poor habitat exists for rough-leaved loosestrife and Cooley's meadowrue. No habitat exists for golden sedge and bald eagle. No specimens were found, therefore, Biological Conclusions for rough-leaved loosestrife and Cooley's meadowrue remain valid and Biological Conclusions of "No Effect" are determined for golden sedge and bald eagle. A review of the NC Natural Heritage Program database of rare species and unique habitats on June 10, 2003 revealed that no known occurrences of any federally protected species occur within one mile of the project area.

NCDOT requests that the proposed work be authorized under a Coastal Area Management Act Major Development Permit. Copies of the green cards will be forwarded as soon as they are available. NCDOT will also be applying for issuance of a United States Army Corps of Engineers NWP 23 and NWP 33 and a 401 Water Quality Certification from the North Carolina Division of Water Quality.

If you have any questions or need additional information, please contact Rachelle Beauregard at (919) 715-1383.

Sincerely,

Gregory J. Thorpe, Ph.D

Environmental Management Director, PDEA

Cc: Mr. David Franklin, USACE, Wilmington

Mr. David Timpy, USACE, Wilmington

Mr. John Dorney, NCDWQ

Mr. Rick Monaghan, NCDMF, Morehead City

Mr. Ron Sechler, DMF, Beaufort

Mr. Gary Jordan, USFWS

Mr. Travis Wilson, NCWRC

Mr. Omar Sultan, Programming and TIP

Ms. Debbie Barbour, P.E., Highway Design

Mr. Jay Bennett, P.E., Roadway Design

Mr. Greg Perfetti, P.E., Structure Design

Mr. Dennis Pipkin, P.E., Project Planning Engineer

Mr. David Chang, P.E., Hydraulics

Mr. H. Allen Pope, P.E., Division 3 Engineer

Mr. Mason Herndon, Division 3 Environmental Officer

Mr. Mark Staley, Roadside Environmental Unit

APPLICATION

(To be completed by all applicants)

1.	APPLICANT	b.	City, town, community or landmark Hubert
a.	Landowner:	c.	Street address or secondary road number SR 1503
	Name_NCDOT	d.	Is proposed work within city limits or planning jurisdiction? Yes X No
	Address	e.	Name of body of water nearest project (e.g. river, creek, sound, bay) Bear Creek
	Zip Day Phone		
	Fax	3.	DESCRIPTION AND PLANNED USE
b.	Authorized Agent:		OF PROPOSED PROJECT
	Name Gregory J. Thorpe, Ph.D. North Carolina Dept. of Transportation	a.	List all development activities you propose (e.g. building a home, motel, marina, bulkhead, pier, and excavation and/or filling activities.
	Address 1548 Mail Service Center		Replace exisiting bridge with 105 foot bridge and a temporary detour bridge will be used.
	City Raleigh State N.C.	b.	Is the proposed activity maintenance of an existing project, new work, or both? New work
	Zip 27699-1548 Day Phone 919-733-3141 Fax 919-733-9794	c.	Will the project be for public, private or commercial use? public
c.	Project name (if any) B-3217	d.	Give a brief description of purpose, use, methods of construction and daily operations of proposed
	NOTE: Permit will be issued in name of landowner(s), and/or project name.		project. If more space is needed, please attach additional pages. Replace exisiting bridge with a new bridge over Bear Creek. Detour bridge will be in place during construction.
2.	LOCATION OF PROPOSED		
	PROJECT		
a.	County Onslow		

4.	LAND AND WATER
	CHARACTERISTICS
a.	Size of entire tract 2.0 ac
b.	Size of individual lot(s) N/A
c.	Approximate elevation of tract above MHW or NWL MHW 3.5 ft
d.	Soil type(s) and texture(s) of tract Wando fine sand, Bohicket silty clay loam, Muckal loam, Bymeade fine sand and Norfolk loamy fine
sar	nd.
for flat Pir Lic	Vegetation on tract Estuarine-coastal fringe evergree est, Brackish marsh, Mesic pine-hardwood twoods, Mantained/disturbed communities; us taeda, Pinus palustris, Acer rubrum, quidambar styraciflua, Persea borbonia, ncusroemerianus, Typha sp., Spartina cynosuroides, Cladium jamiacense
f.	Man-made features now on tract stormwater ditches, road shoulders and a residential lawn
g.	What is the CAMA Land Use Plan land classification of the site? (Consult the local land use plan.)
	X Conservation Transitional Developed Community Rural Other
h.	How is the tract zoned by local government? Rural
i.	Is the proposed project consistent with the applicable zoning? X Yes No (Attach zoning compliance certificate, if applicable)
j.	Has a professional archaeological assessment been done for the tract? X Yes No If yes, by whom? NCDOT and Camp Lejeune
k.	Is the project located in a National Registered Historic District or does it involve a National Register listed or eligible property? YesX No
1.	Are there wetlands on the site? X Yes No Coastal (marsh) X Other X (404)

If yes, has a delineation been conducted? yes

(Attach documentation, if available)

none
Describe location and type of discharges to waters of the state. (For example, surface runoff, sanitary wastewater, industrial/commercial effluent, "wash down" and residential discharges.) surface runoff at 2 grated inlets located at beginning and end of proposedbridge
Describe existing drinking water supply source. waterline

Describe existing wastewater treatment facilities

5. ADDITIONAL INFORMATION

In addition to the completed application form, the following items must be submitted:

- A copy of the deed (with state application only) or other instrument under which the applicant claims title to the affected properties. If the applicant is not claiming to be the owner of said property, then forward a copy of the deed or other instrument under which the owner claims title, plus written permission from the owner to carry out the project.
- An accurate, dated work plat (including plan view and cross-sectional drawings) drawn to scale in black ink on an 8 1/2" by 11" white paper. (Refer to Coastal Resources Commission Rule 7J.0203 for a detailed description.)

Please note that original drawings are preferred and only high quality copies will be accepted. Blue-line prints or other larger plats are acceptable only if an adequate number of quality copies are provided by applicant. (Contact the U.S. Army Corps of Engineers regarding that agency's use of larger drawings.) A site or location map is a part of plat requirements and it must be sufficiently detailed to guide agency personnel unfamiliar with the area to

the site. Include highway or secondary road (SR) numbers, landmarks, and the like.

- A Stormwater Certification, if one is necessary.
- •A list of the names and complete addresses of the adjacent waterfront (riparian) landowners and signed return receipts as proof that such owners have received a copy of the application and plats by certified mail. Such landowners must be advised that they have 30 days in which to submit comments on the proposed project to the Division of Coastal Management. Upon signing this form, the applicant further certifies that such notice has been provided.

Name see permit drawing sheet (10 of10)
Address
Phone
Name
Address
Phone
Name
Address
Phone

- A list of previous state or federal permits issued for work on the project tract. Include permit numbers, permittee, and issuing dates.
- A check for \$250 made payable to the Department of Environment, Health, and Natural Resources (DEHNR) to cover the costs of processing the application.
- A signed AEC hazard notice for projects in oceanfront and inlet areas.
- A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1 to 10) If the project involves the expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act.

6. CERTIFICATION AND PERMISSION TO ENTER ON LAND

I understand that any permit issued in response to this application will allow only the development described in the application. The project will be subject to conditions and restrictions contained in the permit.

I certify that to the best of my knowledge, the proposed activity complies with the State of North Carolina's approved Coastal Management Program and will be conducted in a manner consistent with such program.

I certify that I am authorized to grant, and do in fact, grant permission to representatives of state and federal review agencies to enter on the aforementioned lands in connection with evaluating information related to this permit application and follow-up monitoring of the project.

I further certify that the information provided in this application is truthful to the best of my knowledge.

This is the 23 day , 2003
Print Name Gregory J. Thorpe, Ph.D.
Signature

Please indicate attachments pertaining to your proposed project.

	DCM MP-2	Excavation and Fill Information
	DCM MP-3	Upland Development
	DCM MP-4	Structures Information
X	DCM MP-5	Bridges and Culverts
	DCM MP-6	Marina Development

NOTE: Please sign and date each attachment in the space provided at the bottom of each form.

BRIDGES AND CULVERTS

Attach this form to Joint Application for CAMA Major Permit, Form DCM-MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project.

1.	BRIDGES
a. b.	Public X Private Type of bridge (construction material) RC floor timber joists and abutments; 5 spans
c.	Water body to be crossed by bridge Bear Creek
d.	Water depth at the proposed crossing at MLW or NWL +/- 4.0 feet
e.	Will proposed bridge replace an existing bridge? X Yes No If yes, (1) Length of existing bridge 87' (2) Width of existing bridge 24' (3) Navigation clearance underneath existing bridge +/- 5 ft (4) Will all, or a part of, the existing bridge be removed? (Explain) all of the existing bridge will be removed
f.	Will proposed bridge replace an existing culvert(s)? Yes X No If yes, (1) Length of existing culvert (2) Width of existing culvert (3) Height of the top of the existing culvert above the MHW or NWL (4) Will all, or a part of, the existing culvert be removed? (Explain)

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flow?
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b. Number of culverts proposed

N/A

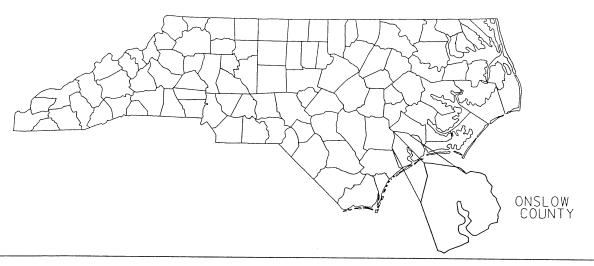
Form DCM-MP-5

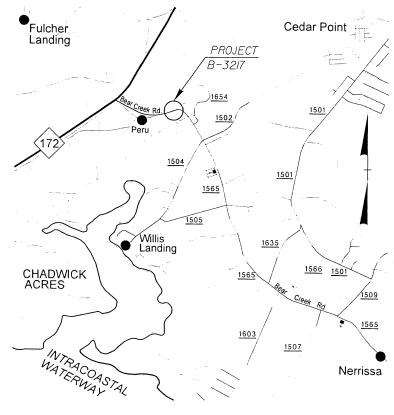
c.	Type of culvert (construction material, style) N/A		(4) Amount of material to be excavated in cubic yards
d.	Will proposed culvert replace an existing bridge? Yes No If yes, (1) Length of existing bridge (2) Width of existing bridge (3) Navigation clearance underneath existing bridge bridge (4) Will all, or a part of, the existing bridge be removed? (Explain)		Will the placement of the proposed bridge or culvert require any excavation within: NO Coastal WetlandsSAVsOther Wetlands If yes, (1) Length of area to be excavated (2) Width of area to be excavated (3) Amount of material to be excavated in cubic yards
e.	Will proposed culvert replace an existing culvert? Yes No If yes, (1) Length of existing culvert (2) Width of existing culvert (3) Height of the top of the existing culvert above the MHW or NWL (4) Will all, or a part of, the existing culvert be removed? (Explain)	d.	Will the placement of the proposed bridge or culvert require any highground excavation? Yes X No If yes, (1) Length of area to be excavated (2) Width of area to be excavated (3) Amount of material to be excavated in cubic yards If the placement of the bridge or culvert involves any excavation, please complete the following: (1) Location of the spoil disposal area
f.	Length of proposed culvert		Approved upland disposal site
g.	Width of proposed culvert		(2) Dimensions of spoil disposal area Unknown at this time
h.	Height of the top of the proposed culvert above the MHW or NWL		 (3) Do you claim title to the disposal area? Yes X No If no, attach a letter granting permission from the owner. (4) Will the disposal area be available for future maintenance? Yes X No (5) Does the disposal area include any coastal
j.	Will the proposed culvert affect existing navigation potential? Yes No If yes, explain		wetlands (marsh), SAVs, or other wetlands? Yes X No If yes, give dimensions if different from (2) above. (6) Does the disposal area include any area below the MHW or NWL? Yes X No
3.	EXCAVATION AND FILL		If yes, give dimension if different from No. 2 above.
a.	Will the placement of the proposed bridge or culvert require any excavation below the MHW or NWL? Yes X No If yes, (1) Length of area to be excavated (2) Width of area to be excavated (3) Depth of area to be excavated		Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d. above) to be placed below MHW or NWL? Yes X No If yes, (1) Length of area to be filled (2) Width of area to be filled (3) Purpose of fill

Form DCM-MP-5

f.	Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d. above) to be placed within: Coastal WetlandsSAVs _X Other Wetlands If yes, (see map) (1) Length of area to be filledtotal of 0.31 ac (2) Width of area to be filled (3) Purpose of fill fill at bridge abutment and along fill slopes	f.	What type of construction equipment will be used (for example, dragline, backhoe or hydraulic dredge)? Heavy highway construction equipment Will wetlands be crossed in transporting equipment to project site? Yes X No If yes, explain steps that will be taken to lessen environmental impacts.
g.	Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d. above) to be placed on highground? X Yes No If yes, (1) Length of area to be filled (2) Width of area to be filled (3) Purpose of fill expanding the road shoulder	h.	Will the placement of the proposed bridge or culvert require any shoreline stabilization? X Yes No If yes, explain in detail rip rap on plans Applicant or Project Name Signature
4.	GENERAL		7-23-03 Date
a.	Will the proposed project involve any mitigation? Yes X No If yes, explain in detail		
b.	Will the proposed project require the relocation of any existing utility lines? Yes X_ No If yes, explain in detail		
c.	Will the proposed project require the construction of any temporary detour structures? X Yes No If yes, explain in detail 100 feet temporary detour bridge to be built approximately 90 feet downstream of mainline bridge. The entire causeway is 1608ft		
d.	Will the proposed project require any work channels? YesX No If yes, complete Form DCM-MP-2		
e.	How will excavated or fill material be kept on site and erosion controlled? NCDOT High Quality Waters Erosion Control Methods will be used		

NORTH CAROLINA





VICINITY MAP N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLOW COUNTY

PROJECT: 8.2261001 (B3217)

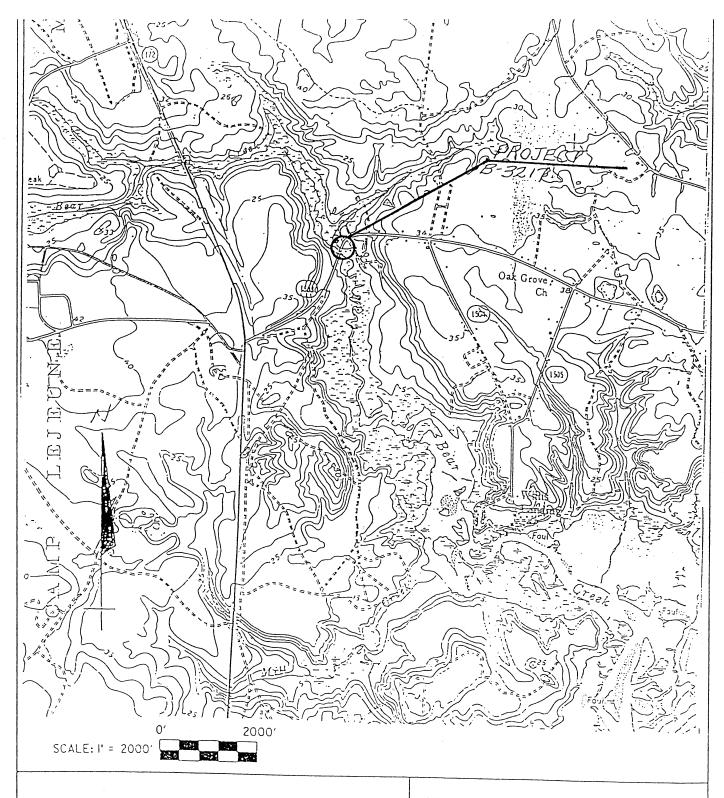
REPLACEMENT OF BRG #21

ON SR 1503 OVER

BEAR CREEK

SHEET 1 OF 10

5/01/03



SITE MAP N. C. DEPT.OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLOW COUNTY

PROJECT: 8.2261001 (B3217)

REPLACEMENT OF BRIDGE 21
ON SR 1505 OVER
BEAR CREEK

SHEET 2 OF 10 5/01/03

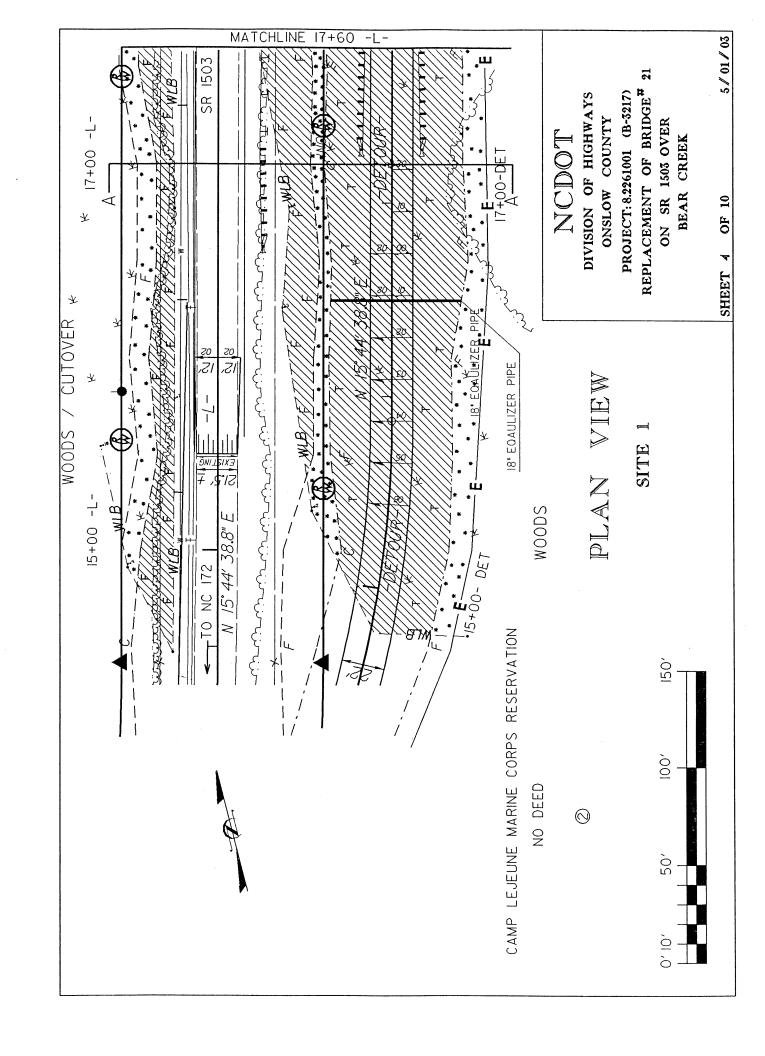
LEGEND - WETLAND BOUNDARY -WLB-PROPOSED BRIDGE -CWLB------ COASTAL WETLAND BOUNDARY WLB WETLAND PROPOSED BOX CULVERT DENOTES FILL IN PROPOSED PIPE CULVERT WETLAND 12"-48" PIPES (DASHED LINES DENOTE DENOTES FILL IN SURFACE WATER EXISTNG STRUCTURES) 54" PIPES & ABOVE DENOTES FILL IN SURFACE WATER (POND) SINGLE TREE DENOTES TEMPORARY T T FILL IN WETLAND WOODS LINE DENOTES EXCAVATION Ε Ε IN WETLAND DRAINAGE INLET DENOTES TEMPORARY FILL IN SURFACE TS TS ROOTWAD WATER DENOTES MECHANIZED CLEARING - --- FLOW DIRECTION RIP RAP - TOP OF BANK - WE - - EDGE OF WATER ADJACENT PROPERTY OWNER 5 OR PARCEL NUMBER IF AVAILABLE - $^{ extsf{C}}$ - prop.limit of cut — F — PROP. LIMIT OF FILL - BZ1 --- BUFFER ZONE 1 - PROP. RIGHT OF WAY --- BZ2 ---- BUFFER ZONE 2 — — NG — — NATURAL GROUND — — PL — PROPERTY LINE — TDE — TEMP. DRAINAGE EASEMENT --- PDE ---- PERMANENT DRAINAGE **EASEMENT** - EAB - EXIST. ENDANGERED ANIMAL BOUNDARY - EPB - EXIST. ENDANGERED PLANT BOUNDARY --- -- WATER SURFACE x x x x x LIVE STAKES N. C. DEPT. OF TRANSPORTATION BOULDER DIVISION OF HIGHWAYS ONSLOW COUNTY CORE FIBER ROLLS PROJECT: 8.2261001 (B3217) REPLACEMENT OF BRG#21

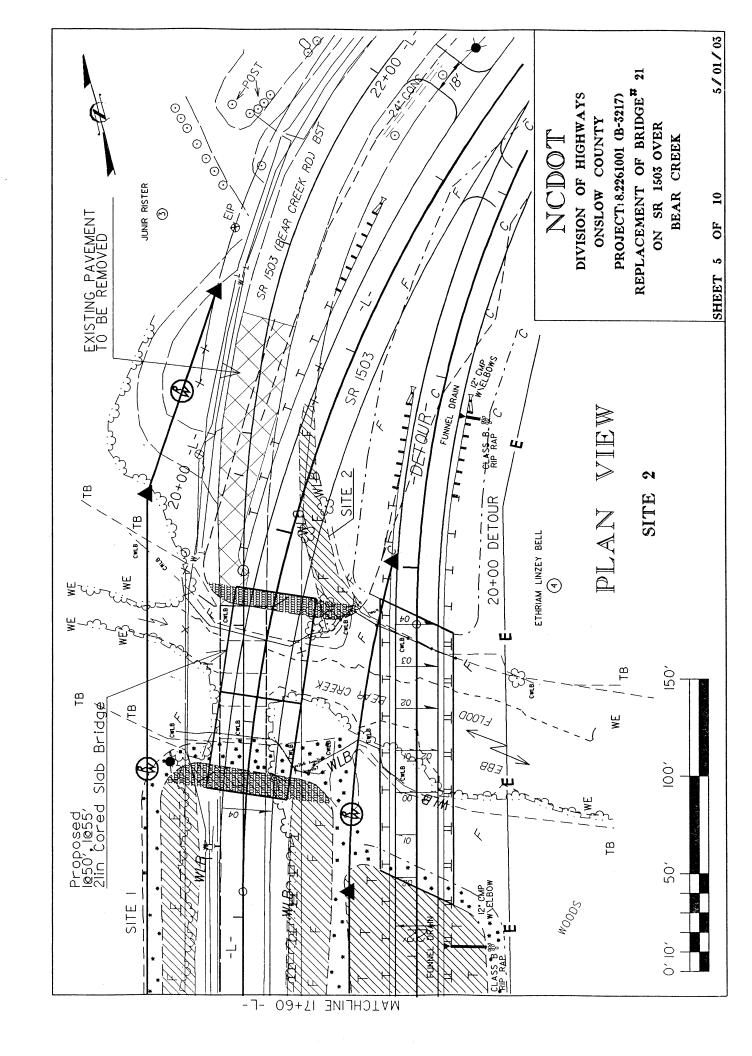
ON SR 1503 OVER BEAR CREEK

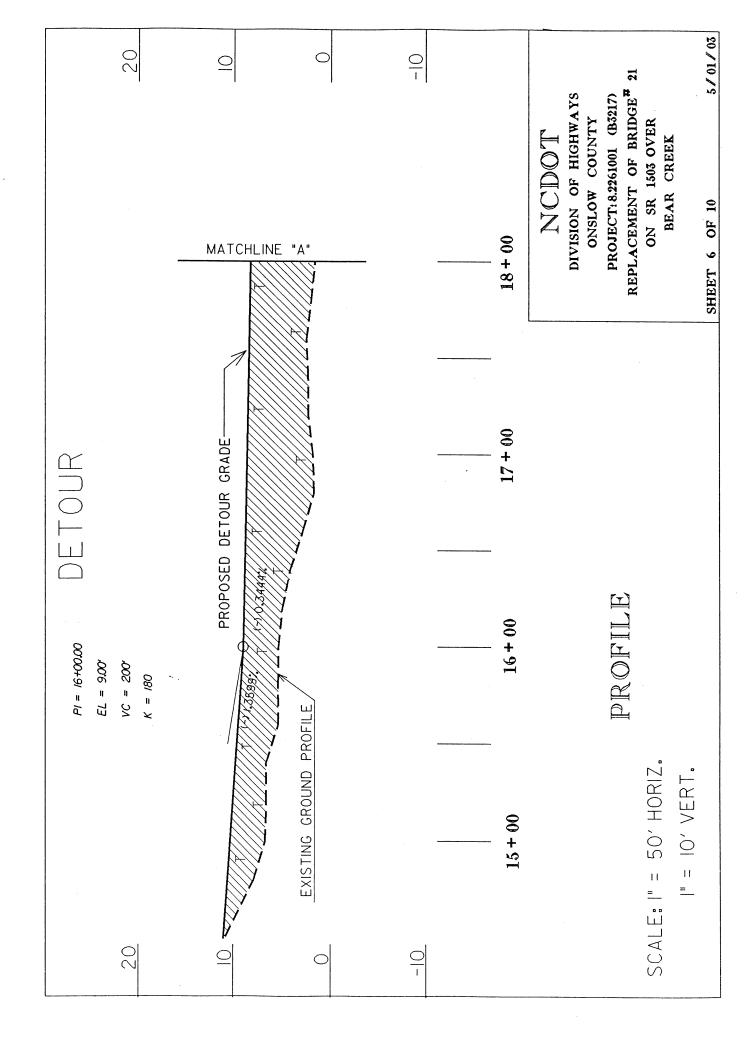
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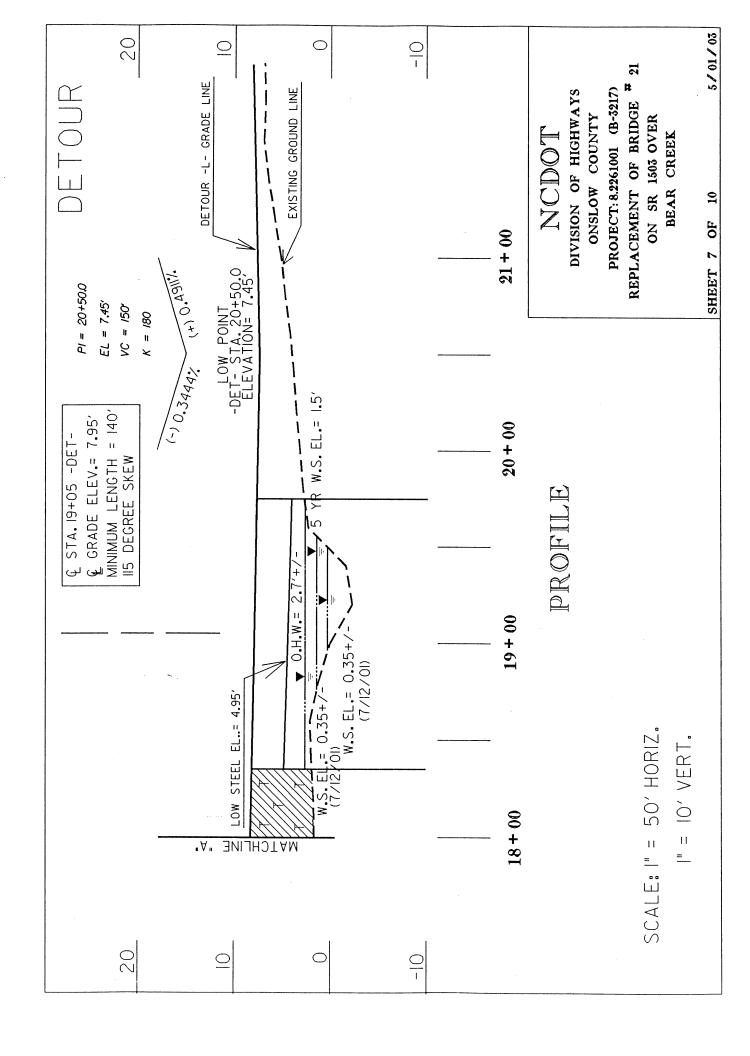
5/01/03

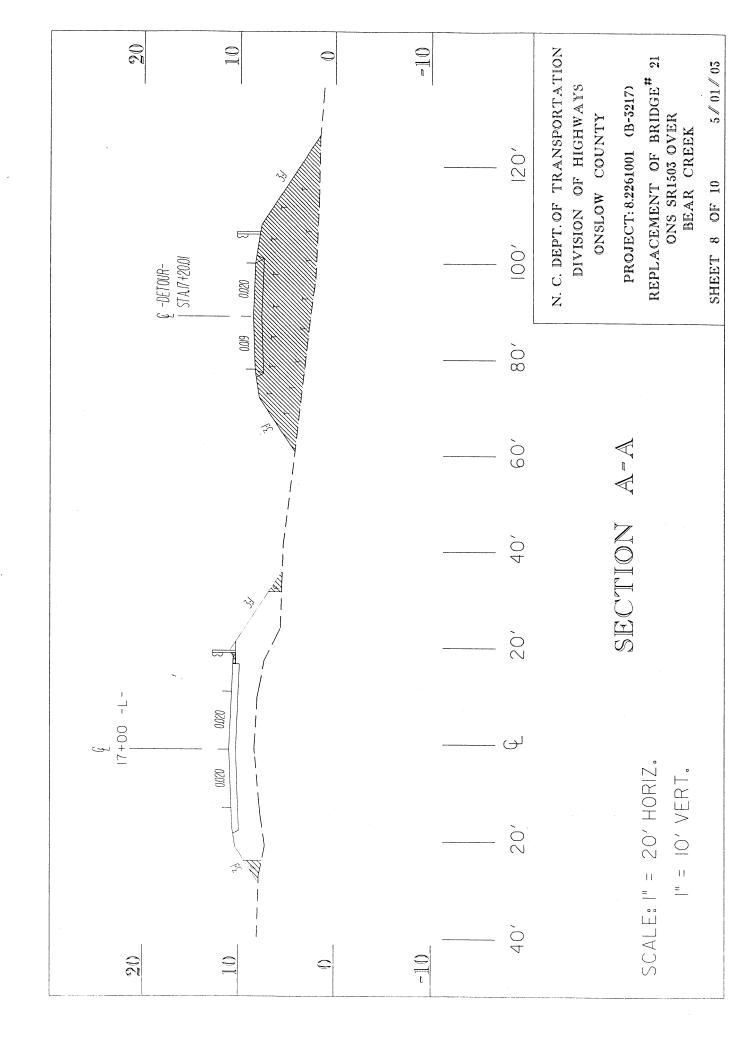
SHEET 3 OF











S Site	Station (From/To) 14+48 -L- TO 18+75 -L- 14+76 -DET- TO 18+35 -DET- 19+59 -L- TO 20+06 -L- TOTAL PERM. MECH. CLEARING TOTAL TEMP. MECH. XLEARING	Structure Size / Type BR. APPROACH FILL BR. APPROACH FILL BR. APPROACH FILL	WETLAND PERMIT IMPACT SUMMARY WETLAND IMPACTS WETLAND IMPACTS WETLAND IMPACTS WETLAND IMPACTS O.28 O.28 O.28 O.53 O.03 O.03	WETLAND Temp. Fill In Wetland (ac) 0.53	WETLAND IMPACTS emp. Fill Excavation (ac) (ac) 0.53	WETLAND IMPACTS WETLAND IMPACTS	(Natural) (ac)	Fill In SW (Pond)	SURFACE WATER IMPACTS Existing to SW Temp. Fill Channon In SW Impac (ac) (ac) (ft)	Existing Channel Impacted (ft)	Stream Design (ft)
TOTALS:			0.31	0.53	0	0.32	0	0	0	0	0

NCDOT

PROJECT: 8.2661001 B-3217
REPLACEMENT OF BRIDGE # 21
ON SR 1503 OVER
BEAR CREEK DIVISION OF HIGHWAYS ONSTOW COUNTY

SHEET JO SHEET 10

PROPERTY OWNERS

NAMES AND ADDRESSES

ADDRESSES

NAMES

PARCEL NO.

	ONSLOW COUNTY BOARD OF EDUCATION	P.O.BOX 99 JACKSONVILLE, NC 98540
2	CAMP LE JEUNE MARINE CORI	PS RESERVATION
3	JUNIR RISTER 942	WEST MCCLELLAN RD. MESA, AZ 85201
4	ETHRIAM L.BELL	216 BEAR CREEK RD. HUBERT, NC 28539

N. C. DEPT.OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLOW COUNTY

PROJECT: 8.2261001 (B3217)

REPLACEMENT OF BRG[#] 21

ON SR 1503 OVER

BEAR CREEK

SHEET 10 OF 10 5 / 01 / 03



MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT SECRETARY

March 24, 2003

Commanding General Attn: Public Works Division/John Jordan PSC Box 20004 Camp Lejeune, NC 28542-0004

Dear Landowner:

The North Carolina Department of Transportation is planning to replace Bridge No. 21 on SR 1503 over Bear Creek. The proposed project will replace the aging existing structure over Bear Creek. The project will replace the existing 87-foot long bridge with an approximately 100-foot long bridge. The additional length will allow for less impacts to the stream and adjacent wetlands. This project crosses an Area of Environmental Concern, as defined by the North Carolina Division of Coastal Management (DCM), and must be approved by the DCM under provisions of the Coastal Area Management Act (CAMA). One of the prerequisites to this approval is that adjacent riparian landowners be given an opportunity to comment on the proposal. A vicinity map and site drawings are enclosed for your review.

The attached form is submitted to insure that you have an opportunity to comment on the proposal. The work planned is depicted in the attached drawing. If you have <u>no</u> objections to the proposal, please return the form with your response within 10 days to this office. If you <u>do</u> have objections to the project, please forward your comments to:

Mr. Bill Arrington
Division of Coastal Management
Morehead City District
151-B Hwy. 24
Morehead City, NC 28557

Thank you for your cooperation.

Sincerely

Rachelle Beauregard., Environmental Biologist

Vachelle & Beargard

Project Development and Environmental Analysis Branch

Enclosures

cc:

Bill Arrington, DCM H. Allen Pope, P.E.

File B-3217

WEBSITE: WWW.DOH.DOT.STATE.NC.US



MICHAEL F. EASLEY GOVERNOR

LYNDO TIPPETT SECRETARY

July 11, 2003

Onslow County Board of Education P.O. Box 99 Jacksonville, NC 98540

Dear Landowner:

The North Carolina Department of Transportation is planning to replace Bridge No. 21 on SR 1503 over Bear Creek. The proposed project will replace the aging existing structure over Bear Creek. The project will replace the existing 87-foot long bridge with an approximately 100-foot long bridge. The additional length will allow for less impacts to the stream and adjacent wetlands. This project crosses an Area of Environmental Concern, as defined by the North Carolina Division of Coastal Management (DCM), and must be approved by the DCM under provisions of the Coastal Area Management Act (CAMA). One of the prerequisites to this approval is that adjacent riparian landowners be given an opportunity to comment on the proposal. A vicinity map and site drawings are enclosed for your review.

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> Mr. Bill Arrington **Division of Coastal Management** Morehead City District 151-B Hwy. 24 Morehead City, NC 28557

Thank you for your cooperation.

Sincerely,

Rachelle Beauregard., Environmental Biologist

Rochel & Deargal

Project Development and Environmental Analysis Branch

Enclosures

cc:

Bill Arrington, DCM H. Allen Pope, P.E.

File B-3217



MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

July 11, 2003

Junir Rister 942 West McClellan Rd. Mesa. AZ. 85201

Dear Landowner:

The North Carolina Department of Transportation is planning to replace Bridge No. 21 on SR 1503 over Bear Creek. The proposed project will replace the aging existing structure over Bear Creek. The project will replace the existing 87-foot long bridge with an approximately 100-foot long bridge. The additional length will allow for less impacts to the stream and adjacent wetlands. This project crosses an Area of Environmental Concern, as defined by the North Carolina Division of Coastal Management (DCM), and must be approved by the DCM under provisions of the Coastal Area Management Act (CAMA). One of the prerequisites to this approval is that adjacent riparian landowners be given an opportunity to comment on the proposal. A vicinity map and site drawings are enclosed for your review.

The attached form is submitted to insure that you have an opportunity to comment on the proposal. The work planned is depicted in the attached drawing. If you have <u>no</u> objections to the proposal, please return the form with your response within 10 days to this office. If you <u>do</u> have objections to the project, please forward your comments to:

Mr. Bill Arrington
Division of Coastal Management
Morehead City District
151-B Hwy. 24
Morehead City, NC 28557

Thank you for your cooperation.

Sincerely,

Takell L Rearymal

Rachelle Beauregard., Environmental Biologist

Project Development and Environmental Analysis Branch

Enclosures

cc:

PARTICIONO 27699 1548

Bill Arrington, DCM H. Allen Pope, P.E.

File B-3217



MICHAEL F. EASLEY GOVERNOR

LYNDO TIPPETT SECRETARY

July 11, 2003

Ethriam L. Bell 216 Bear Creek Rd. Hubert, NC 28539

Dear Landowner:

The North Carolina Department of Transportation is planning to replace Bridge No. 21 on SR 1503 over Bear Creek. The proposed project will replace the aging existing structure over Bear Creek. The project will replace the existing 87-foot long bridge with an approximately 100-foot long bridge. The additional length will allow for less impacts to the stream and adjacent wetlands. This project crosses an Area of Environmental Concern, as defined by the North Carolina Division of Coastal Management (DCM), and must be approved by the DCM under provisions of the Coastal Area Management Act (CAMA). One of the prerequisites to this approval is that adjacent riparian landowners be given an opportunity to comment on the proposal. A vicinity map and site drawings are enclosed for your review.

The attached form is submitted to insure that you have an opportunity to comment on the proposal. The work planned is depicted in the attached drawing. If you have <u>no</u> objections to the proposal, please return the form with your response within 10 days to this office. If you do have objections to the project, please forward your comments to:

> Mr. Bill Arrington **Division of Coastal Management** Morehead City District 151-B Hwy. 24 Morehead City, NC 28557

Thank you for your cooperation.

Tacheth L Reawigans

Rachelle Beauregard., Environmental Biologist

Project Development and Environmental Analysis Branch

Enclosures

cc:

Bill Arrington, DCM H. Allen Pope, P.E.

File B-3217

ADJACENT RIPARIAN LANDOWNER STATEMENT

(Onslow County: Replace Bridge No. 21 over Bear Creek)

General Statutes and Division of Coastal Management Major Development Permit approval procedures require that riparian landowners with property adjoining a proposed development in an Area of Environmental Concern (AEC) be given ten (10) days in which to comment on the proposed development. This form allows the adjacent riparian landowner to express either: (1) that he objects to the project; or, (2) that he does not object and desires to waive his/her right to the 10-day period so that the processing of the application can progress more rapidly. Of course, the adjacent riparian landowner need not sign this form at all if he/she so chooses.

l,	, am an adjacent riparian property owner
	e North Carolina Department of Transportation's plans number twenty-one over Bear Creek in Onslow County,
	further aware that this work will occur in one or more will require authorization from the Division of Coastal
	rdance with the Coastal Area Management Act (CAMA).
	o objection to the project as presently proposed and waive that right of objection as provided in General 113-229
	ojections to the project as presently proposed and my ats are attached
•	Signature of Adjacent Riparian Landowner
	Date:

L L					
49					
2580	Postage Certified Fee	\$			
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1670	Total Postage & Fees	\$			
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U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)					
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Postage \$
Certified Fee Postmark Here

Restricted Delivery Fee (Endorsement Required)

Total Postage \$
Sent To Share Company Board of Education

Street, Ap. No.: or PO Box Ch.

City, States Tep-4

City, States Tep-4

PS Form 3800. May 2000

See Reverse for Instructions

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	Restricted Delivery Fee (Endorsement Required)				
170	Total Postage & Fees	\$			
무	Sent To Ethniam L. Bell				
7000	Street, Ag., No.: or B. Box No. Cark Rd.				
7	City, Spare, 27-4 Hubert, NC 28539				
	PS Form 3800, May 2000		See Reverse for Instructions		



Michael F. Easley, Governor

William G. Ross Jr., Secretary

North Carolina Department of Environment and Natural Resources

Alan W. Klimek, P.E. Director Division of Water Quality

DIVISION OF

April 30, 2003

Mr. Gregory J. Thorpe, Director NCDOT PDEA Branch 1548 Mail Service Center Raleigh, NC 27699-1548

Subject:

Permit No. SW8 030230

B-3217 Bridge No. 21 SR 1503

Other Stormwater Permit

Linear Public Road/Bridge Project

Onslow County

Dear Mr. Thorpe:

The Wilmington Regional Office received a complete Stormwater Management Permit Application for B-3217 Bridge No. 21 SR 1503 on February 24, 2003. Staff review of the plans and specifications has determined that the project, as proposed, will comply with the Stormwater Regulations set forth in Title 15A NCAC 2H .1000. We are forwarding Permit No. SW8 030230 dated April 30, 2003, for the construction of the subject project.

This permit shall be effective from the date of issuance until rescinded and shall be subject to the conditions and limitations as specified therein.

If any parts, requirements, or limitations contained in this permit are unacceptable, you have the right to request an adjudicatory hearing upon written request within thirty (30) days following receipt of this permit. This request must be in the form of a written petition, conforming to Chapter 150B of the North Carolina General Statutes, and filed with the Office of Administrative Hearings, P.O. Drawer 27447, Raleigh, NC 27611-7447. Unless such demands are made this permit shall be final and binding.

If you have any questions, or need additional information concerning this matter, please contact either me or Linda Lewis at (910) 395-3900.

Sincerely.

Water Quality Regional Supervisor

RSS/arl:

S:\WQS\STORMWAT\PERMIT\030230.apr03

cc:

Onslow, County Building Inspections Division of Coastal Management

Linda Lewis

Wilmington Regional Office

Central Files



STATE OF NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY

STATE STORMWATER MANAGEMENT PERMIT

OTHER PERMIT

In accordance with the provisions of Article 21 of Chapter 143, General Statutes of North Carolina as amended, and other applicable Laws, Rules and Regulations

PERMISSION IS HEREBY GRANTED TO

NCDOT

B-3217 Bridge No. 21 SR 1503

Onslow County

FOR THE

construction of a public road / bridge in compliance with the provisions of 15A NCAC 2H .1000 (hereafter referred to as the "stormwater rules") and the approved stormwater management plans and specifications, and other supporting data as attached and on file with and approved by the Division of Water Quality and considered a part of this permit.

The Permit shall be effective from the date of issuance until rescinded and shall be subject to the following specific conditions and limitations:

I. DESIGN STANDARDS

- 1. The runoff from the impervious surfaces has been directed away from surface waters as much as possible.
- 2. The amount of built-upon area has been minimized as much as possible.
- 3. Best Management Practices are employed which minimize water quality impacts.
- 4. Approved plans and specifications for projects covered by this permit are incorporated by reference and are enforceable parts of the permit.
- 5. Vegetated roadside ditches are 3:1 slopes or flatter.

II. SCHEDULE OF COMPLIANCE

1. The permittee shall at all times provide adequate erosion control measures in conformance with the approved Erosion Control Plan.

- 2. The permittee shall submit to the Director and shall have received approval for revised plans, specifications, and calculations prior to construction for the following items:
 - a. Major revisions to the approved plans, such as road realignment, deletion of any proposed BMP, changes to the drainage area or scope of the project, etc.

b. Project name change.

- c. Redesign of, addition to, or deletion of the approved amount of built-upon area, regardless of size.
- d. Alteration of the proposed drainage.
- 3. The permittee shall submit all information requested by the Director or his representative within the time frame specified in the written information request.
- 4. The Director may determine that other revisions to the project should require a modification to the permit.
- 5. The Director may notify the permittee when the permitted site does not meet one or more of the minimum requirements of the permit. Within the time frame specified in the notice, the permittee shall submit a written time schedule to the Director for modifying the site to meet minimum requirements. The permittee shall provide copies of revised plans and certification in writing to the Director that the changes have been made.

III. GENERAL CONDITIONS

- 1. Failure to abide by the conditions and limitations contained in this permit may subject the Permittee to an enforcement action by the Division of Water Quality, in accordance with North Carolina General Statutes 143-215.6A to 143-215.6C.
- 2. The permit issued shall continue in force and effect until revoked or terminated.
- 3. The permit may be modified, revoked and reissued or terminated for cause. The filing of a request for a permit modification, revocation and reissuance, or termination does not stay any permit condition.
- 4. The issuance of this permit does not prohibit the Director from reopening and modifying the permit, revoking and reissuing the permit, or terminating the permit as allowed by the laws, rules, and regulations contained in Title 15A of the North Carolina Administrative Code, Subchapter 2H.1000; and North Carolina General Statute 143-215.1 et. al.
- 5. The permit is not transferable to any person except after notice to and approval by the Director. The Director may require modification or revocation and reissuance of the permit to change the name and incorporate such other requirements as may be necessary. A formal permit request must be submitted to the Division of Water Quality accompanied by the appropriate fee, documentation from both parties involved, and other supporting materials as may be appropriate. The approval of this request will be considered on its merits, and may or may not be approved. The permittee is responsible for compliance with the terms and conditions of this permit until such time as the Director approves the transfer.

The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances which may be imposed by other government agencies (local, state and federal) which have jurisdiction. 6.

Permit issued this, the 30th day of April, 2003

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

Alan W. Klimek, P.E., Director Division of Water Quality By Authority of the Environmental Management Commission

Permit Number SW8 030230

OFFICE USE ONLY Date Received Fee Paid Permit Number 420. = 1399398 180302 State of North Carolina Department of Environment and Natural Resources Division of Water Quality

STORMWATER MANAGEMENT PERMIT APPLICATION FOR MIVISION OF HIGHWAYS HYDRAULICS UNIT

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION LINEAR ROADWAY PROJECT

This form may be photocopied for use as an original.

DWO Stormwater Management Plan Review:

A complete stormwater management plan submittal includes this application for

proposed (see Section V), design calculations, and plans and specifications showing all road and BMP details.					
I. PROJECT INFORMATION					
NCDOT Project Number: 8.226/00/ (B-32)7) County: ONS/OW					
NCDOT Project Number: 8.226/001 (B-32)7) County: ONS /OW Project Name: Project Location: Replacement OF BA: D GE No. 21 ON SA 1503 OVER 13 GAR CA. Contact Person: Phone: Fax: Receiving Stream Name: BEAR CA. River Basin: White OAK Class:					
					Receiving Stream Name: BEAR CA. River Basin: White OAK Class:
					Proposed linear feet of project: 0.24 m;/e5
Proposed Structural BMP and Road Station (attach a list of station and BMP type if more room is needed):					
Type of proposed project: (check all that apply):					
□ New □Widening □2 lane* □4 lane* □Curb and Gutter □Bridge Replacement □Other (Describe) *2 lane and 4 lane imply that roadside ditches are used unless Curb and Gutter is also checked.					
II. REQUIRED ITEMS CHECKLIST					
Initial in the space provided below to indicate the following design requirements have been met and supporting documentation is attached. Supporting documentation shall, at a minimum, consist of a brief narrative description including (1) the scope of the project, (2) how the items below are met, (3) how the proposed best management practices minimize water quality impacts, and (4) any significant constraints and/or justification for not meeting a, b, c and d to the maximum extent practicable.					
Designer's Initials					
$\frac{W52}{a}$ a. The amount of impervious surface has been minimized as much as possible.					
b. The runoff from the impervious areas has been diverted away from surface waters as much as possible					
wst c. Best Management Practices are employed which minimize water quality impacts.					
USZ d. Vegetated roadside ditches are 3:1 slope or flatter.					

III. OPERATION AND MAINTENANCE AGREEMENT

I acknowledge and agree by my initials below that the North Carolina Department of Transportation is responsible for the implementation of the four maintenance items listed. I agree to notify DWQ of any operational problems with the BMP's that would impact water quality or prior to making any changes to the system or responsible party.

Maintenance L	ngineer's Initials
/// a.	BMP's shall be inspected and maintained in good working order.
b.	Eroded areas shall be repaired and reseeded as needed.
S C.	Stormwater collection systems, including piping, inlets, and outlets, shall be maintained to insure proper
	functioning.
Maintenance E	ingineer's Name: Mull Mond DAVID L. THOMAS, P.E.
	TIME: DIVISION MAINTENANCE ENGINEER
	LICATION CERTIFICATION
certify that the project will be	e name) M. Ransdall Turner of PD4EA Branch information included on this permit application form is, to the best of my knowledge, correct and that the constructed in conformance with the approved plans and that the proposed project complies with the of 15A NCAC 2H .1000.
Title: UNi	+ Hear, NCDOT
Address: //	
	\cdot

V. SUPPLEMENT FORMS

The applicable state stormwater management permit supplement form(s) listed below must be submitted for each BMP specified for this project. Contact the Stormwater and General Permits Unit at (919) 733-5083 for the status and availability of these forms.

Form SWU-102	Wet Detention Basin Supplement
Form SWU-103	Infiltration Basin Supplement
Form SWU-104	Low Density Supplement
Form SWU-105	Curb Outlet System Supplement
Form SWU-106	Off-Site System Supplement
Form SWU-107	Underground Infiltration Trench Supplement
Form SWU-108	Neuse River Basin Supplement
Form SWU-109	Innovative Best Management Practice Supplement
Form SWU-110	Extended Dry Detention Basin Supplement

STATE PROJECT:

8.2261001 (B-3217)

F. A. PROJECT:

BRZ-1503(1) ONSLOW

COUNTY: PROJECT LENGTH:

0.34 MILES

May 13, 2002

Project Scope

NCDOT proposes to replace Bridge No. 21 on SR1503 over Bear Creek at its existing location. The existing 5 span, 87ft. long, 25.4ft. wide bridge will be replaced by a 2-span, 95ft. long, 45ft. wide bridge. A temporary detour bridge (100 ft. long) will be located just to the east (downstream) of SR1503. The existing roadway approaches, which consist of two 12 ft. lanes, will be replaced with two 12 ft. lanes with 8 ft. shoulders. Four feet of the shoulder area will be paved and 4 ft. will be turf. Bear Creek is classified as Class SA waters and is a designated fish nursery area.

Best Management Practices Utilized

- No deck drains will be installed in the bridge deck (No direct discharge into Bear Creek)
- Detour structure will be a bridge and not <u>2@72in</u> CMPs as initially proposed in the Preliminary Hydraulic Study. This was done to keep the disturbance of the main channel and adjacent wetlands to a reasonable minimum.
- The possibility of using an off-site detour was reinvestigated given the recent emphasis on the protection of wetlands and high quality waters. After considering alternatives, Division personnel determined that given all issues at hand that an on-site detour is the best alternative.
- The maximum span for a cored slab bridge was used in order to keep bents out of the main channel.
- Roadway ditches were removed from wetland areas where possible to limit wetland impacts.
- Approach roadway footprint was reinvestigated and minimized where possible to limit wetland impact.